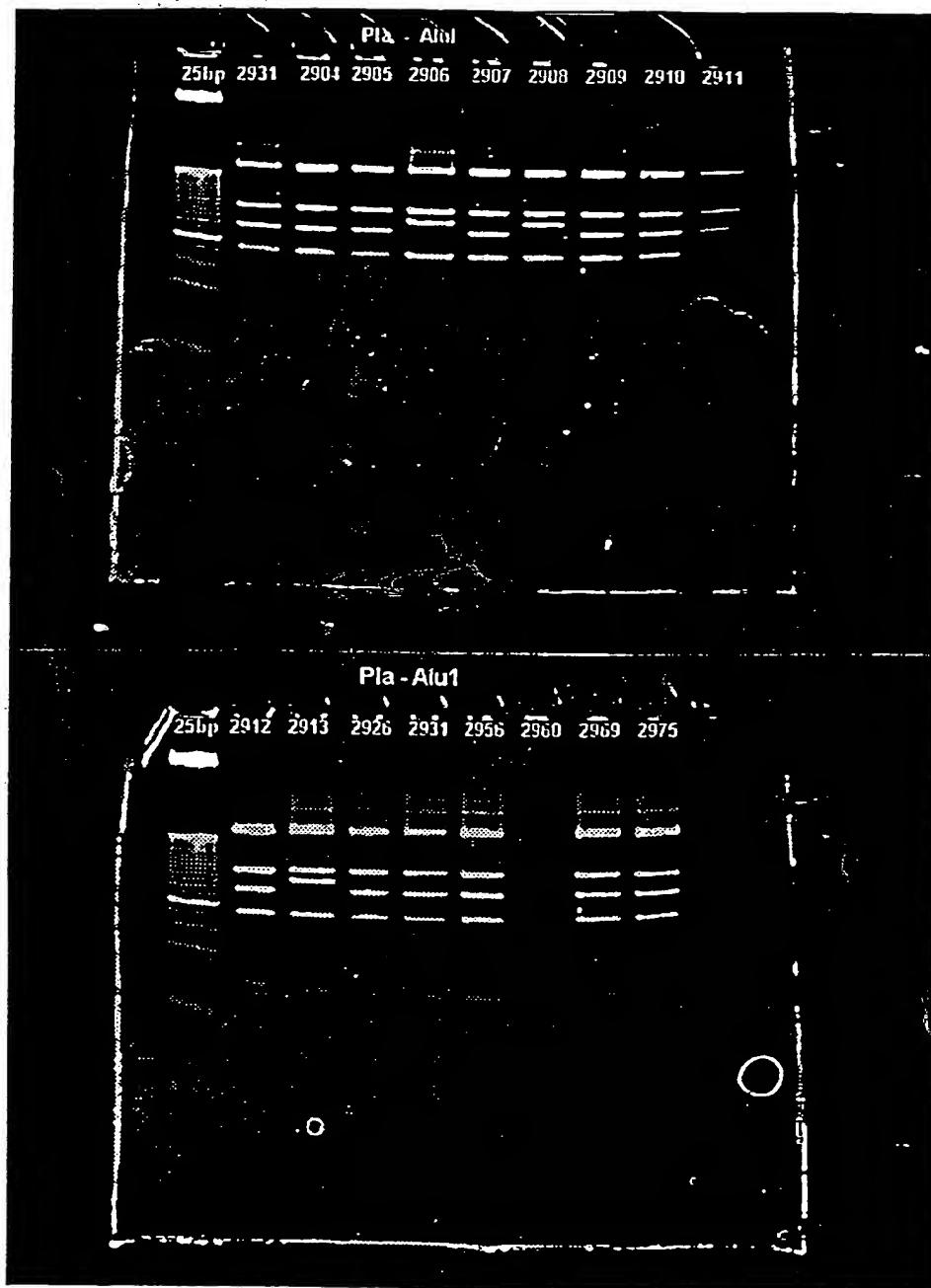
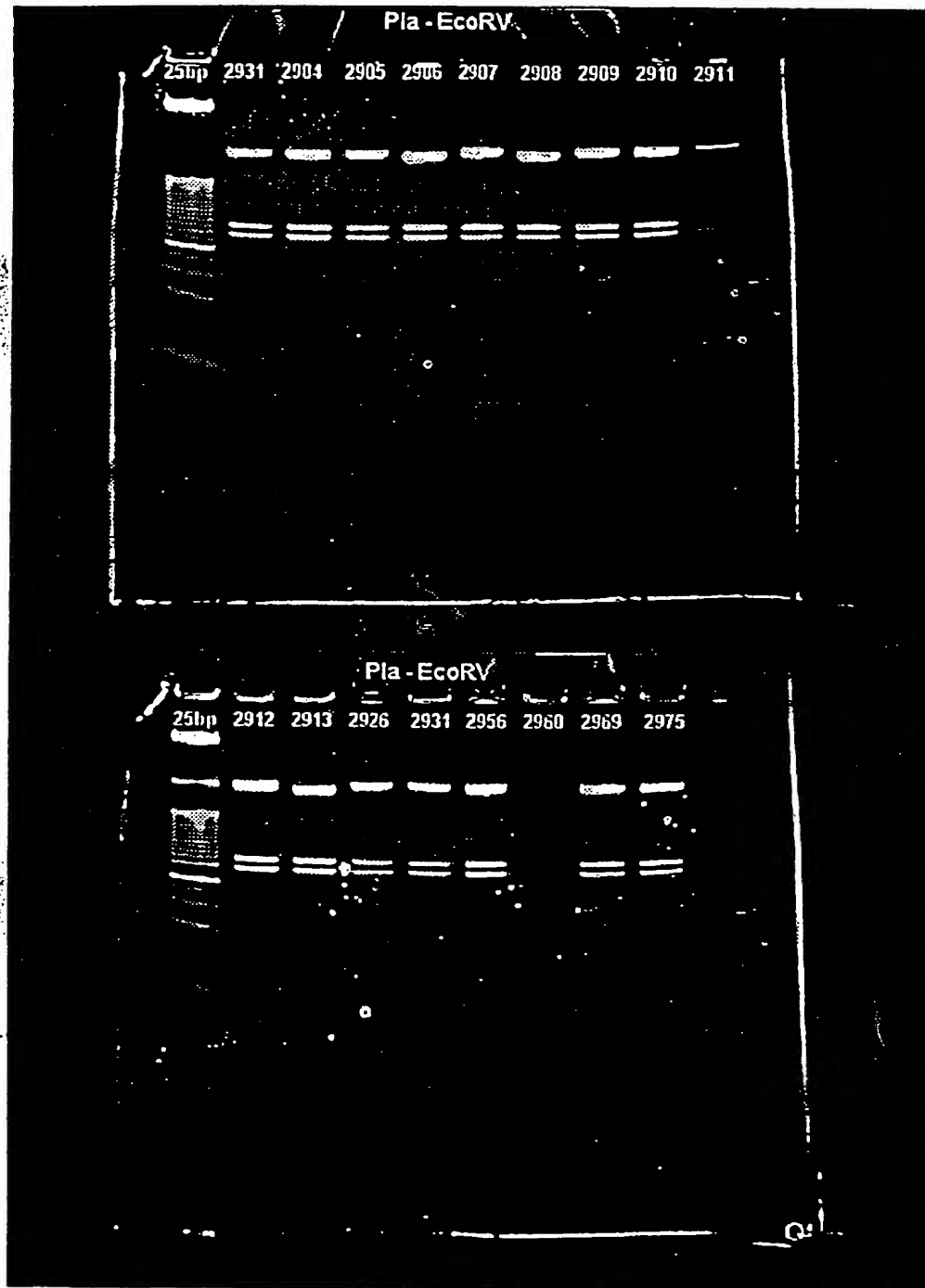


Figure 1 : Photographs of the electrophoresis gels obtained in the RFLP analysis of BASB034



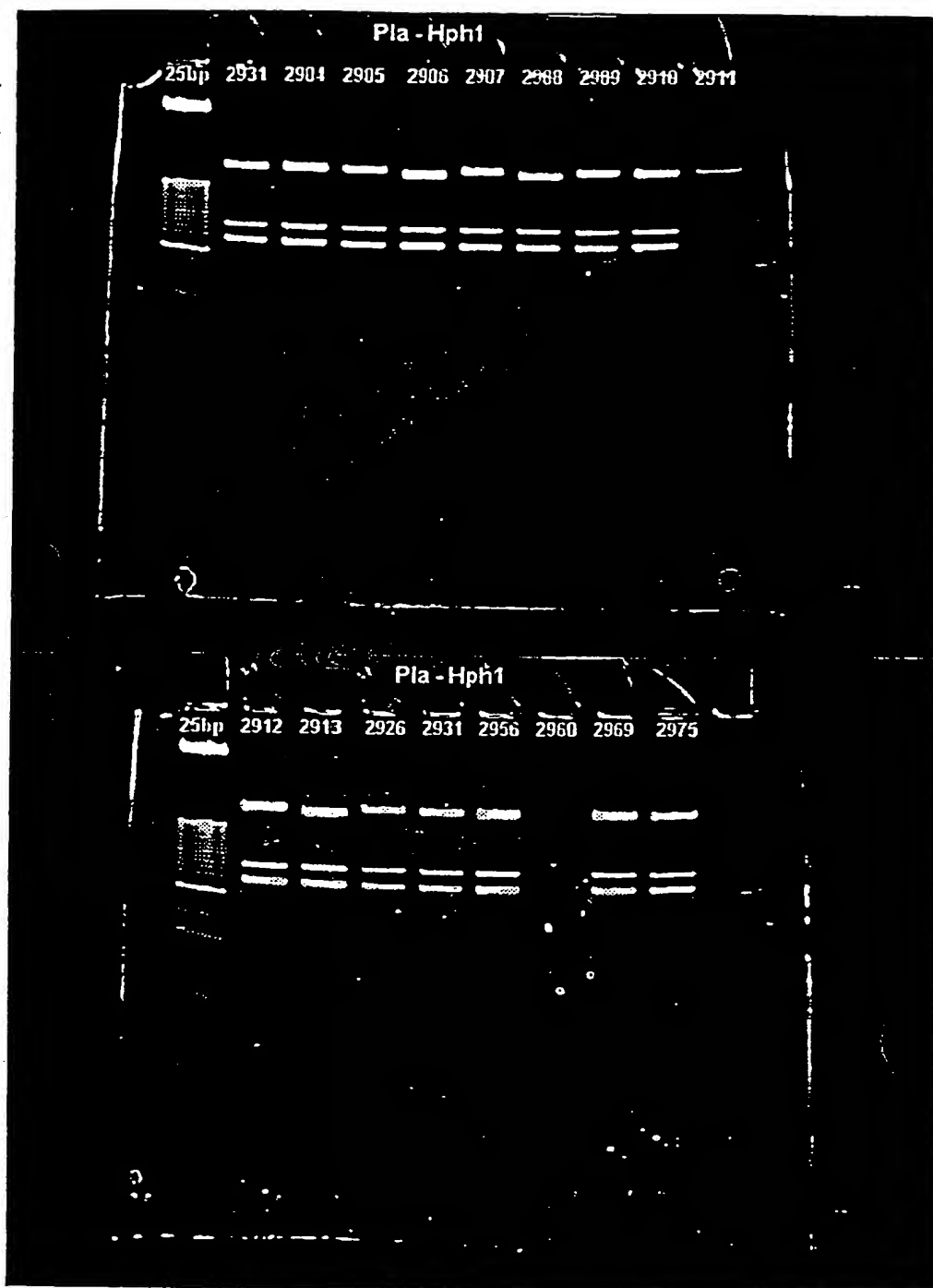
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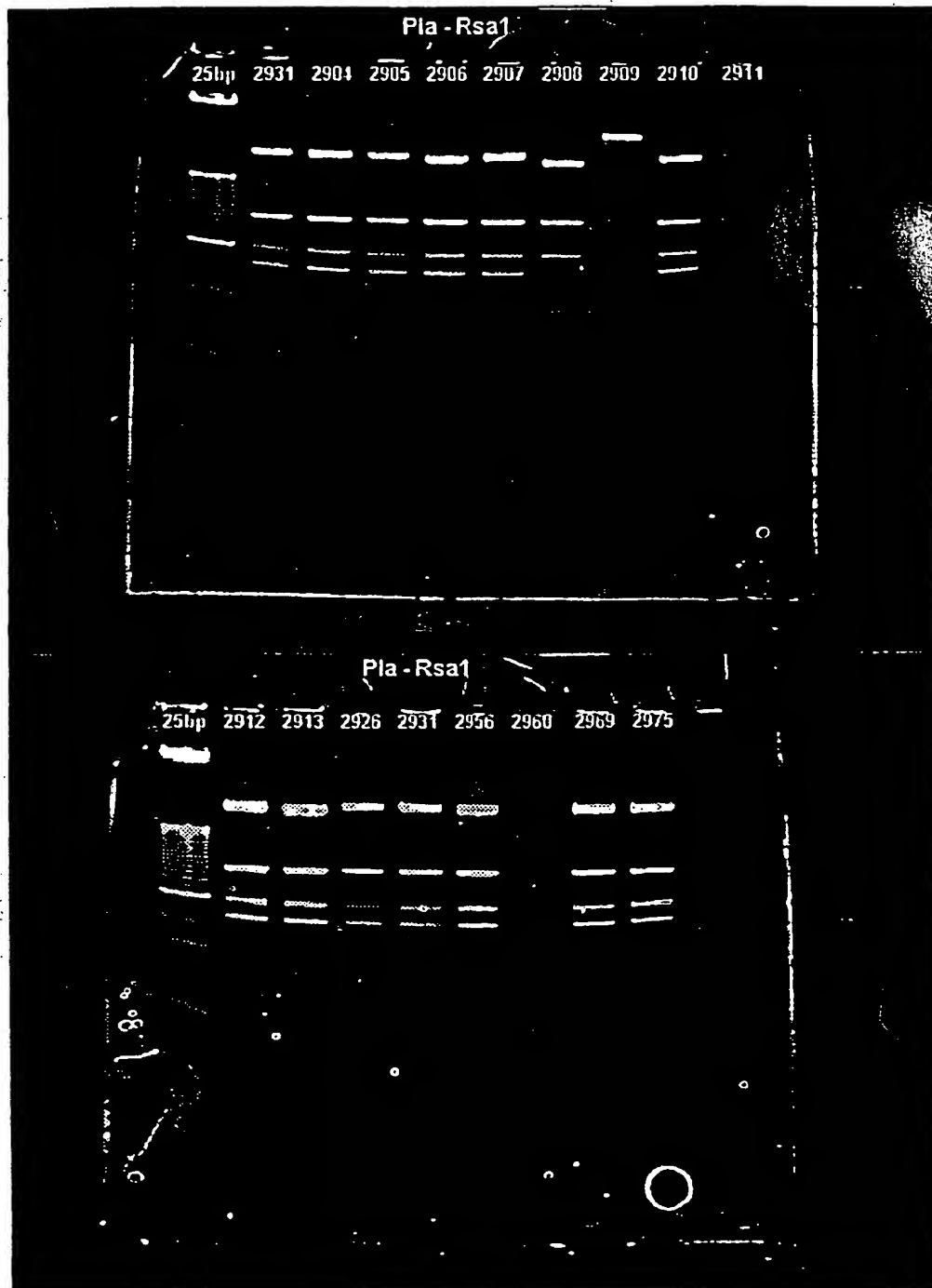


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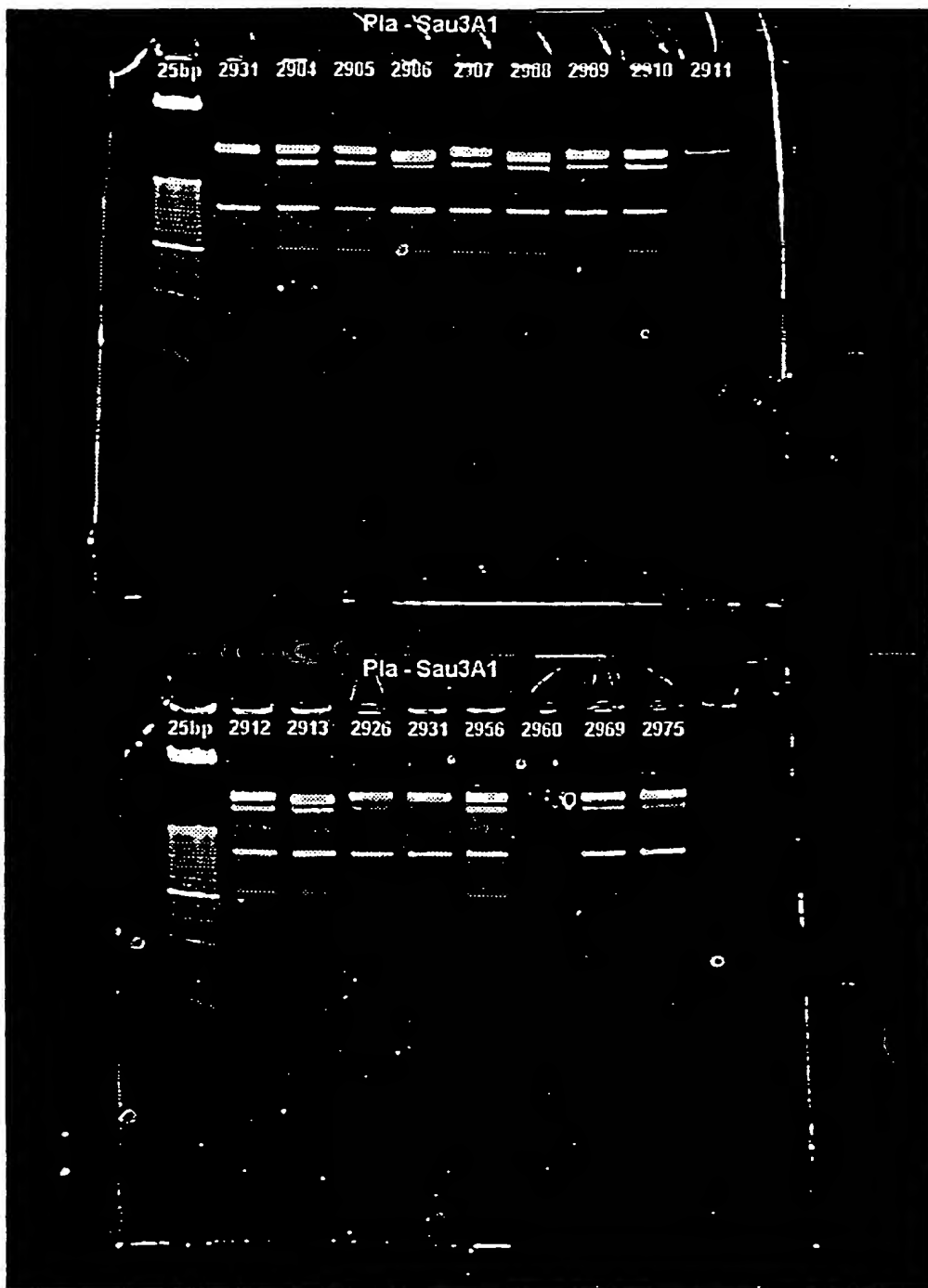


Figure 2 : Alignment of the BASB034 polynucleotide sequences.

Identity to SeqID No:1 is indicated by a dot.

	*	20	*	40	*	
Seqid1 :	ATGAAAGTTTCACTGTCTACATTGACTTTATCTATTTGTCATGTTTGC					50
Seqid3 :	.....C.....					50
Seqid5 :	.....					50
Seqid7 :	.....C.....					50
	60	*	80	*	100	
Seqid1 :	TATCCTAGCCATTGAGCAAGCACAAGCTGTACCAATCCTGTGGCATTG					100
Seqid3 :	.....					100
Seqid5 :	.....A.....					100
Seqid7 :	C.....					100
	*	120	*	140	*	
Seqid1 :	TTGACGAAGTACGCAGTGAAAATGATCTTGGGCAAGACAATGAATTACCC					150
Seqid3 :	.....A.....T.					150
Seqid5 :	.....					150
Seqid7 :	.....					150
	160	*	180	*	200	
Seqid1 :	ATTGATGTCCAAAGTGCACACAATCAGCGTCTACTGATACGGCTAATCC					200
Seqid3 :	....G...A.....					200
Seqid5 :	.....					200
Seqid7 :	.....G.....					200
	*	220	*	240	*	
Seqid1 :	TTTAGACGAACATGAACCAGAGCTTTATACGACAGCTTTAGAAAATAAAA					250
Seqid3 :					250
Seqid5 :					250
Seqid7 :					250

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260 * 280 * 300
Seqid1 : CCATGCTGATTAAGTCTCAGCACTTAATCAAGATATCATGCGTTTGGCG : 300
Seqid3 : : 300
Seqid5 : : 300
Seqid7 : : 300

* 320 * 340 *
Seqid1 : TGCTATGACACTTTGGTGCATGGTGAGACGCCAGCGTAATTAAACCAA : 350
Seqid3 : : 350
Seqid5 : : 350
Seqid7 : : 350

360 * 380 * 400
Seqid1 : GCGTTCATTTCGCCTTGATGAAACAATTTGGCAGACCATCAAAGGCAAAC : 400
Seqid3 : : 400
Seqid5 : : 400
Seqid7 : : 400

* 420 * 440 *
Seqid1 : CCCAGGTTATCTATCAAGAAACGACAGATCCGATTTTTTAATGGGTAAT : 450
Seqid3 :G..... : 450
Seqid5 :G..... : 450
Seqid7 :G..... : 450

460 * 480 * 500
Seqid1 : GAAAAAGGCATGCTGACCAAAAAGATGCCAACAGCTTGAATATGCAGC : 500
Seqid3 : : 500
Seqid5 : : 500
Seqid7 : : 500

* 520 * 540 *
Seqid1 : CAAACAGTTTACACCACTGAGCTTATCATTGATTGACCGAAATAATA : 550

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Seqid3 : : 550
 Seqid5 : : 550
 Seqid7 : : 550

560 * 580 * 600
 Seqid1 : CACCACTTTGGTCATCACGACCACACAATCCGATGTATGTATTGCCATA : 600
 Seqid3 :G..... : 600
 Seqid5 : : 600
 Seqid7 : : 600

* 620 * 640 *
 Seqid1 : TTTATGCACGGTAAGCCTAATCGAAGCCCAAATACGCCCAGTCATGAAGC : 650
 Seqid3 : : 650
 Seqid5 : : 650
 Seqid7 : : 650

660 * 680 * 700
 Seqid1 : AAAACAATTTACCCCAAATGAATTCGTGCTCCCGAGCTAAAATTCAGG : 700
 Seqid3 : ..G.....C..T..AT.....A. : 700
 Seqid5 : ..G.....C..T..AT.....A. : 700
 Seqid7 : : 700

* 720 * 740 *
 Seqid1 : TTTCTGTAAAGGTTAAAGCTGCTGAGGATTTATGGGGACGGATTCAGAT : 750
 Seqid3 : : 750
 Seqid5 : : 750
 Seqid7 : : 750

760 * 780 * 800
 Seqid1 : TTATGGTTTGATATACACAGCAATCGCACTGGCAGATTTTAAATGGAAA : 800
 Seqid3 :G..... : 800
 Seqid5 : : 800
 Seqid7 : : 800

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* 820 * 840 *

Seqid1 : AAACCTCTCGTCCTTTTAGAGTACATGACTACCAGCCAGAGATTTTCTTAA : 850

Seqid3 :T..... : 850

Seqid5 :T..... : 850

Seqid7 : : 850

 860 * 880 * 900

Seqid1 : CTCAACCTGTATACTCAGACTTACCATGGGATGGCAAAGTCCGCATGATT : 900

Seqid3 :G..... : 900

Seqid5 : : 900

Seqid7 : : 900

* 920 * 940 *

Seqid1 : GGCATGGGTGCGGTACATCATTCCAATGGTGAAAGTGCCAAACTGTCTCG : 950

Seqid3 : : 950

Seqid5 : : 950

Seqid7 : : 950

 960 * 980 * 1000

Seqid1 : CTCATGGAATCGTGCTTATTGATGGCAGGCATGGAATGGAAAAACCTGA : 1000

Seqid3 : : 1000

Seqid5 : : 1000

Seqid7 : : 1000

* 1020 * 1040 *

Seqid1 : CTGTCATGCCACGCATTTGGGGCGTATCTTTAAAGAGGGTAGTGGCAGC : 1050

Seqid3 : : 1050

Seqid5 : : 1050

Seqid7 : : 1050

 1060 * 1080 * 1100

Seqid1 : CAGCCAGATGATAATCCTGATATCTTGACTATTATGGTTATGGTGATGT : 1100

Seqid3 :C..... : 1100

Seqid5 :C..... : 1100

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Seqid7 : : 1100

* 1120 * 1140 *

Seqid1 : GCGTTTTTATATCAACTAGAAAAATAAAAGTAATATTTTCAGGTACGGTAC : 1150

Seqid3 : : 1150

Seqid5 : : 1150

Seqid7 : : 1150

1160 * 1180 * 1200

Seqid1 : GCTATAATCCACGCTCAGGCAAAGGTGCGTTGCAACTTGACTATGTCTAT : 1200

Seqid3 : : 1200

Seqid5 : : 1200

Seqid7 : : 1200

* 1220 * 1240 *

Seqid1 : CCGCTTGGTAAAGGAATTAGTGGCTATTTTCAAATATTTCAAGGCTATGG : 1250

Seqid3 : : 1250

Seqid5 : : 1250

Seqid7 : : 1250

1260 * 1280 * 1300

Seqid1 : GCAGTCTTTGATTGATTATAATCATGAGGCGACAAGCTTTGGCGTCGGAC : 1300

Seqid3 : : 1300

Seqid5 : : 1300

Seqid7 : : 1300

* 1320

Seqid1 : TTATGCTTAACGACTGGATGGGTCTATAA : 1329

Seqid3 : : 1329

Seqid5 : : 1329

Seqid7 : : 1329

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Figure 3 : Alignment of the BASB034 polypeptide sequences.

Identity to SeqID No:2 is indicated by a dot.

```

      *      20      *      40      *
Seqid2 : MKVSLSTLTLSILSCFAILAIQQAQAVPNPVAFFVDEVRENDLGQDNELP : 50
Seqid4 : .....P.....K.....L : 50
Seqid6 : .....K..... : 50
Seqid8 : .....P..... : 50

      60      *      80      *      100
Seqid2 : IDVQSATQSASTDTANPLDEHEPELYTTALENKTMLINCSALNQDIMRLA : 100
Seqid4 : .G..... : 100
Seqid6 : ..... : 100
Seqid8 : ..... : 100

      *      120      *      140      *
Seqid2 : CYDTLVHGETPAVIKTKRSIRLDETIWQTIKGKQVIYQETTDPIFLMGN : 150
Seqid4 : .....V..... : 150
Seqid6 : .....V..... : 150
Seqid8 : .....V..... : 150

      160      *      180      *      200
Seqid2 : EKGMLTKKDAKQLEYAAKQFTPLSLSFOLDNRNNTPLWSSRPHPNPMYVLPI : 200
Seqid4 : ..... : 200
Seqid6 : ..... : 200
Seqid8 : ..... : 200

      *      220      *      240      *
Seqid2 : FMHGKPNRSPNTPSHEAKQFTPNEFRAPELKFQVSVKVKAAEDLWGTDSO : 250
Seqid4 : .....R..... : 250
Seqid6 : .....R..... : 250
Seqid8 : ..... : 250

```

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260 * 280 * 300
Seqid2 : LWFGYTQQSHWQIFNGKNSRPFVRVHDYQPEIFLTQPVYSDLPWDGKVRMI : 300
Seqid4 : : 300
Seqid6 : : 300
Seqid8 : : 300

 * 320 * 340 *
Seqid2 : GMGAVHHSNGESAKLSRSWNRAYLMAGMEWKNLTVMPRIWGRIFKEGSGS : 350
Seqid4 : : 350
Seqid6 : : 350
Seqid8 : : 350

 360 * 380 * 400
Seqid2 : QPDDNPDILDYGYGDVRFYQLENKSNISGTVRYNPRSGKALQLDYVY : 400
Seqid4 : : 400
Seqid6 : : 400
Seqid8 : : 400

 * 420 * 440
Seqid2 : PLGKGISGYFQIFQGYGQSLIDYNHEATSFGVGLMLNDWMGL : 442
Seqid4 : : 442
Seqid6 : : 442
Seqid8 : : 442

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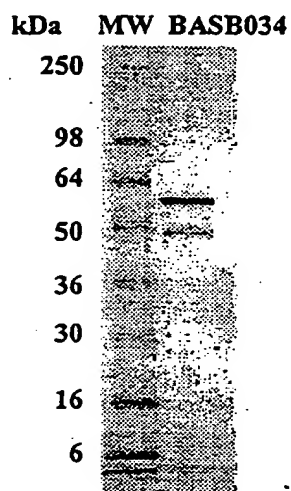
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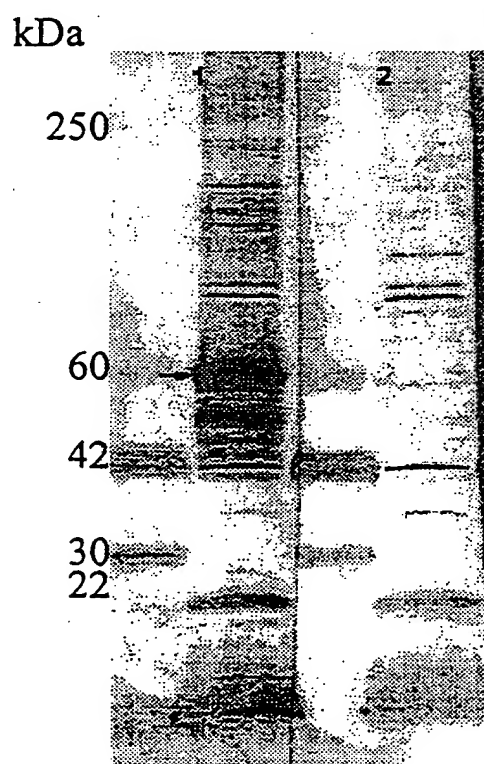
Figure 5 : Western-blot of purified recombinant BASB034 protein probed with anti-His antibody



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Figure 6 : Western-blot of BASB034 probed with immune (membrane 1; right lane) and pre-immune (membrane 2; right lane) rabbit sera at 1:500. The arrow indicates the position of BASB034 on the membrane. The left lanes on membrane 1 and 2 are molecular weight markers.



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